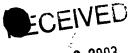
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1/	AD		Von Heijne et al	., J. Mol. Biol.,	vol. 17	3, pp. 243-251	·					
	AE		Hochstrasser et al., Annal Biochem., vol. 173, pp. 424-435									
	AF		Kohler et al., Na	RECEIVED_								
	AG		Li et al., Infect. I	mmun., vol. 61	, pp. 17	30-1734		A C 2003				
	AH		Lindblad et al., I	nfect. Immun.,	vol. 65,	pp. 623-629		FEB 0 6 2003				
	AI		Mahairs et al., J.	Bacteriol., vol.	. 178, pp	o. 1274-1282		FEB 0 6 2003 TECH CENTER 1600/2900				
	AJ		Nagai et al., Infe	ct. Immun., vol	l. 59, pp	. 372-382		15011.00	(8) 1881 -			
	AK		Oettinger et al., l	nfect. Immun.,	vol. 62,	, pp. 2058-2064				<u>-</u>		
	AL		Ohara et al., Scar	nd. J. Immunol.	., vol. 4	1, pp. 433-442	· 					
	AM		Pal et al., Infect.	Immun., vol. 6	0, pp. 4	781-92						
	AN		Pearson et al., Pr	oc. Natl. Acad.	Sci., U	SA, vol. 85, pp. 2444-244	18					
	AO		Ploug et al., Ana	Ploug et al., Anal Biochem., vol. 181, pp. 33-39								
	AP		Porath et al., FEI	Porath et al., FEBS Lett., vol. 185, pp. 306-310								
	AQ		Roberts et al., In	nmunol., vol. 85	5, pp. 50)2-508						
	AR		Rosenkrands et a	ıl., Infect. Immı	un., vol.	66, no. 6, pp. 2728-2735						
	AS		Andersen et al., .	J. Immunol. vol	l. 154, p	p. 3359-72						
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$\overline{}$			Valdes-Stauber et al., Appl. Environ. Microbiol., vol. 60, pp. 3809-3814 Valdes-Stauber et al., Appl. Environ. Microbiol., vol. 62, no 4, pp. 1283-1286 Williams, Science, 272:27 Young et al., Proc. Natl. Acad. Sci. USA, vol. 82, pp. 2583-2587 Crebture et al., EMBL Sequence detabase						
	AG		Valdes-Stauber et al., Appl. Environ. Microbiol., vol. 62, no 4, pp. 1283-1286						
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l	AP				the Protective Protency of	Now Tuborou	dosis Vaccines" [Paviane of I	 Infactions
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	AR	Orme, I.M., "Ne 169-185, March		ninst Tub	perculosis", Infectious Disc	ease Clinic of	North America, V	ol. 13, No.	1, pages
	AS	Andersen, Infec	t. Immun. vol. 6	52, pp. 2:	536-44				
	ĄŢ	Barkholt et al., A	Anal. Biochem.,	vol. 17	7, pp. 318-322				
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Sheet 4 of 6 Y. DOCKET NO. SERIAL NO. Based on Form PTO-1449 (3/90)670001-2002.4 09/804,980 APPLICANT LIST OF REFERENCES CITED BY APPLICANT (Use several sheets if necessary) ANDERSEN ET AL. GROUP FILING DATE March 13, 2001 1645 U.S. PATENT DOCUMENTS SUBCLASS EXAMINER DOCUMENT NUMBER DATE NAME CLASS FILING DATE INITIAL IF APPROPRIATE AA FOREIGN PATENT DOCUMENTS CLASS SUBCLASS TRANSLATION DOCUMENT NUMBER DATE COUNTRY YES NO AB OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.) SCANDINAVIAN JOURNAL OF IMMUNOLOGY vol. 36, 1992 pages 823 - 831 P. ANDERSEN ET AL. AC 'Identification of immunodominant antigens during infection with Mycobacterium tuberculosis' AD INFECTION AND IMMUNITY vol. 61, no. 3, March 1993, WASHINGTON US pages 844 - 851 PETER ANDERSEN ET AL. 'Specificity of a protective memory immune response against Mycobacterium tuberculosis' INFECTION AND IMMUNITY vol. 59, no. 4, April 1991, WASHINGTON US pages 1558 - 1563 PETER ΑE ANDERSEN ET AL. 'T-cell proliferative response to antigens secreted by Mycobacterium tuberculosis' cited in the application INFECTION AND IMMUNITY vol. 60, no. 7, July 1992, WASHINGTON US pages 2880 - 2886 KRIS HUYGEN ET AF AL. 'Spleen cell cytokine secretion in Mycobacterium bovis BCG-infected mice' INFECTION AND IMMUNITY vol. 59, no. 6, June 1991, WASHINGTON US pages 1905 - 1910 PETER AG ANDERSEN ET AL. 'Proteins released from Mycobacterium tuberculosis during growth' cited in the application INFECTION AND IMMUNITY vol. 56, no. 12, December 1988, WASHINGTON US pages 3046 - 3051 AH CHRISTIANE ABOU-ZEID ET AL. 'Characterization of fibronectin-binding antigens released by Mycobacterium toberculosis and Mycobacterium bovis BCG' INFECTION AND IMMUNITY vol. 57, no. 10, October 1989, WASHINGTON US pages 3123 - 3130 MARTINE ΑI BORREMANS ET AL. 'Cloning sequence determination, and expression of a 32-kilodalton-protein gene of Mycobacterium tuberculosis' INFECTION AND IMMUNITY vol. 62, no. 6, June 1994, WASHINGTON US pages 2536 - 2544 PETER AJ ANDERSEN 'Effective vaccination of mice against Mycobacterium tuberculosis infection with a soluble mixture of secreted mycobacterial proteins' MORIYAMA S ET AL.: "DIGITAL TRANSMISSION OF HIGH BIT RATE SIGNALS USING 16DAPSK-OFDM AK MODULATION SCHEME" IEEE TRANSACTIONS ON BROADCASTING, March 1998, vol. 44, no. 1, pages 115-122, XP002105431 **EXAMINER** DATE CONSIDERED * EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



Sheet 5 of 6 FEB 0 6 2003 ATTY. DOCKET NO. SERIAL NO. Based on Form PTO-1449 (3/90)TECH CENTER 1600/2900 670001-2002.4 09/804,980 APPLICANT IST OF REFERENCES CITED BY (Use several sheets if necessary) ANDERSEN ET AL. FILING DATE GROUP March 13, 2001 1645 U.S. PATENT DOCUMENTS **EXAMINER** DOCUMENT NUMBER DATE NAME **CLASS** SUBCLASS FILING DATE INITIAL IF APPROPRIATE AA FOREIGN PATENT DOCUMENTS DOCUMENT NUMBER DATE COUNTRY **CLASS SUBCLASS** TRANSLATION NO YES AB OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.) AC Man et al. "Treatment of human muscle creatine kinase with glutaraldehyde preferentially increases the immunogenicity of the native conformation and permits production of high-affinity monoclonal antibodies which recognize two distinct. surface epitopes", J, Oct. 1, 1989 AD A.B. Andersen et al., MPB64 Possesses Tuberculosis-Complex'-Specific B- and T-Cell Epitopes, Scand J. Immunol 34, 365-372, 1991 ΑE Anne Worsaee et al., Allergenic and Blastogenic Reactivity of Three Antigens from Mycobacterium tuberculosis in Sensitized Guinea Pigs, Infection and Immunity, Dec. 1987, p 2922-2927 AF Yamaguchi Ryugi, et al. "Cloning and Characterization of the Gene for immunogenic Protein MPB64 of Mycobacterium bovis BCG" Infection and Immunity 57(1):283-288 (1989) AG Wiker, H.G., et al., "A Family of Cross-Reacting Proteins Secreted by Mycobacterium tuberculosis", Scand J. Immunol. 36:307-319 (1992) Leao, S.C., "Tuberculosis: New Strategies for the Development of Diagnostic Tests and Vaccines", Brazilian J. Med. AH Biol. Res. 26:827-833 (1993) ΑI Oettiner, Thomas, et al., " Cloning and B-Cell-Epitope Mapping of MPT64 from Mycobacterium tuberculosis H37Rv", Infection and Immunity 62(5):2058-2064 (1994) AJ Boswell et al. Computational Molecular Biology, Oxford University Press, pp. 161-178, 1988 ΑK Flesch and Kaufmann, Mycobacterial Growth Inhibition by Interferon-y-Activated Bone Marrow Macrophages and Differential ... tuberculosis, The Journal of Immunology, vol. 138, No. 12, pp. 4408-4413, Jun 15, 1987 ALLefford and McGregor, Immunological Memory in Tuberculosis, Cellular Immunology, vol. 14, pp. 417-428, 1974 AM Orme, Characteristics and Specificity of Acquired Immunologic Memory to Mycobacterium tuberculosis Infection The Journal of Immunology, vol. 140, No. 10, pp.3589-3593, May 15, 1988 AN G.A.W. Rock, The Role of Activated Macrophages in protection and immunopathology in Tuberculosis, Research in Microbiology vol. 141, No. 2, Feb. 1990, pp. 253-256 EXAMINER DATE CONSIDERED 30*-*03 whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered include copy of this form with next communication to applicant.

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	AC				nomas and Davis, Dissection. USA, vol. 82, pp 2583-			is antigens U	Jsing	
	AD	Kaufman (Micro	Kaufman (Microbiological Sciences 4 (11) Nov. 1987 pp. 324-328)							
	AE	Lazar et al. (Mo	lecular & Cellul	ar Bio.	Mar. 1988.pp. 1247-1252)				
	AF	Burgess et al (J.	of Cell Biology	vol. III	Nov. 1990 pp. 2129-2138	3)				
	AG	Salgaller et al. (Cancer Immuno.	. Imnuo	ther. (1994) vol. 39 pp. 10)5-116)				
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